

Ahmed Farooq

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EDUCATION

NUST (SEECS)

M.S. in Computer Science

- Focus: scalable backend architecture, and AI-driven system design

Islamabad, Pakistan

2026 – Present

Mirpur University of Science and Technology (MUST)

B.S. in Electrical Engineering

- Focus: data structure and algorithms, signal processing, and analytical problem-solving

Mirpur, Pakistan

2020 – 2024

EXPERIENCE

Rev9 Solutions

Associate Software Engineer

- Migrated frontend from CRA to Next.js, achieving a 55% speed increase and improved SEO rankings via Server-Side Rendering (SSR).
- Architected a Go-based sync engine for 70+ Follow Up Boss accounts, processing millions of records on a 1GB RAM/single-core instance with zero downtime.
- Engineered a mailing infrastructure delivering 15M+ emails monthly via SendGrid, Gmail, and Outlook APIs with custom domains and real-time tracking.
- Migrated backend to NestJS microservices with Redis caching and event-driven architecture, increasing background job success rates by 350%.
- Optimized MongoDB and backend performance, reducing application load times from 1 minute to 3 seconds and critical query times from 3 minutes to 8 seconds.
- Developed a custom browser extension for real-time activity tracking with multi-platform data synchronization via 3rd-party APIs.
- Built a visual automation engine using React Flow and Node.js, processing 30M+ multi-step automation jobs per month.

Jhelum

Feb 2025 – Present

PROJECTS

Smartlistzero | Go, React, TypeScript, Follow Up Boss API, PostgreSQL

- Engineered a performance analytics platform for Follow Up Boss, a leading real estate CRM, tracking the "Smartlist Zero" metric to surface true agent productivity
- Deployed across 70+ agencies managing 5 million contacts, delivering real-time agent performance and pipeline-health insights
- Built deep integration with the Follow Up Boss API to process and analyze millions of CRM contacts in real time

Trevy | NestJS, React, Node.js, React Flow, Redis, MongoDB, BullMQ

- Built a high-volume marketing automation engine using behavioral triggers, delivering 15M+ emails and processing 35M+ data events monthly
- Designed a visual, drag-and-drop automation builder with React Flow, comparable to enterprise tools like n8n, for custom multi-step campaigns
- Architected a scalable event-processing pipeline with Redis and BullMQ for low-latency, high-reliability job queuing

BAMF.AI | Next.js, MongoDB, Express.js, Astria AI, Replicate, REST API

- Developed an AI-powered LinkedIn photoshoot generator integrating the Astria AI API for custom model training and image generation
- Built a custom AI image-generation API on Replicate and a clean REST API on an Express.js/MongoDB backend
- Managed asynchronous AI job queues and optimized the image-processing pipeline for quality and speed

TECHNICAL SKILLS

Frontend: React, Next.js, Material UI, Antd, ShadCN, Tailwind CSS, SCSS

Backend: NestJS, Node.js, Express.js, TypeScript, Go (Gin)

Databases: PostgreSQL, MongoDB, Pinecone, Redis

Cloud & DevOps: AWS, GCP, Oracle Cloud, Docker, Git, Linux

AI / ML: LangChain, LangGraph